Write your name here		
Surname	Othe	er names
Pearson Edexcel GCSE	Centre Number	Candidate Number
Mathama	tice R	
Unit 2: Number, A	ILICS D Igebra, Geome	try 1
Unit 2: Number, A (Non-Calcu	lucs D lgebra, Geome llator)	try 1 Higher Tier
Unit 2: Number, A (Non-Calcu Thursday 4 June 2015 – 1	IUICS D Igebra, Geome Ilator) Morning	try 1 Higher Tier Paper Reference
Unit 2: Number, A (Non-Calcu Thursday 4 June 2015 – I Time: 1 hour 15 minute	IUICS D Igebra, Geome Ilator) Morning	try 1 Higher Tier Paper Reference 5MB2H/01

Instructions

- Use **black** ink or ball-point pen.
- Fill in the boxes at the top of this page with your name, centre number and candidate number.
- Answer **all** questions.
- Answer the questions in the spaces provided there may be more space than you need.
- Calculators must not be used.

Information

- The total mark for this paper is 60
- The marks for each question are shown in brackets
 use this as a guide as to how much time to spend on each question.
- Questions labelled with an **asterisk** (*) are ones where the quality of your written communication will be assessed.

Advice

- Read each question carefully before you start to answer it.
- Keep an eye on the time.
- Try to answer every question.
- Check your answers if you have time at the end.







Turn over 🕨















6 Gary's motorbike uses petrol.

Gary needs to mix oil with the petrol. He mixes oil and petrol in the ratio 1 : 14 by volume.

Gary is going to ride his motorbike 3000 miles. Each 20 miles he rides uses 1 litre of the oil and petrol mixture.

A 500 ml bottle of oil costs £3.99

Work out the total cost of the bottles of oil Gary needs to buy. (1 litre = 1000 ml)

You must show all your working.

£.....

(Total for Question 6 is 4 marks)





8 Kim invested £2000 for two years.

By the end of the first year, the value of the investment was 15% more than its value at the beginning of the year.

By the end of the second year, the value of the investment was 10% more than its value at the end of the first year.

Work out the value of the investment at the end of the second year.

£.....

(Total for Question 8 is 3 marks)



*9	In England the speed limit is 70 miles per hour. In Italy the speed limit is 130 kilometres per hour.	
	Which country has the greater speed limit, England or Italy? You must show your working.	
_	(Total for Question 9 is 3 marks)	
_	(Total for Question 9 is 3 marks)	
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	(Total for Question 9 is 3 marks)	





P 4 4 7 9 1 A 0 1 1 1 6



P 4 4 7 9 1 A 0 1 2 1 6





16 The points A(6, 1) and B(-2, 5) are on the line with equation $y = -\frac{1}{2}x + 4$ *M* is the midpoint of *AB*.

Find an equation of the line through *M* that is perpendicular to $y = -\frac{1}{2}x + 4$

(Total for Question 16 is 4 marks)



15

